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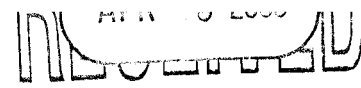
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Department of Energy

Western Area Power Administration
Desert Southwest Customer Service Region
P.O. Box 6457
Phoenix, AZ 85005-6457

2003 APR -3 P 2:58

APR 1 2003



Director of Utilities

AZ CORP COMMISSION
DOCUMENT COLLECTION

E-00000D-03-0047

Dear Boulder Canyon, CRSP, Intertie, and Parker-Davis Customers;

Western Area Power Administration (Western), Desert Southwest Region (DSW), held a 10-Year Plan Engineering and Construction Plan (10-Year Plan) meeting on January 30, 2003.

Customer input to DSW during the abovementioned meeting and subsequent site reviews determined that no further meetings are necessary for the FY05 10-Year Planning Process. Enclosed with this letter is a CD containing the following information:

- Final version of the Preliminary FY05 Maintenance Construction Rehabilitation Program (both in electronic and hard copy format), including all changes discussed in the customer meeting.
- Maps and Operating Diagrams – The maps and operating diagrams are the most current available at DSW.
- Trip Reports from the Site Visits (site maps included).
 - Site visit conducted to South of Casa Grande, South of Phoenix Project on February 27, 2003, by Chuck McEndree, Project Manager.
 - Site visit conducted to South of Parker on March 5, 2003, by Jorge Alva, Project Manager.
- Facility Development Sheets (FDS) for the projects shown as starting in FY05. (Note: This will be the on-going standard for the disbursement of FDS' in conjunction with the 10-Year Plan.)
- Right-of-Way/Easement Documentation – This is an on-going data collection process, and will be updated with the customers at later dates (see enclosed Minutes for further details).

This letter concludes the 10-Year Planning Process for FY05. DSW is always looking to improve and refine our processes. If you have any observations on process improvements, please let us know.

Should you have any questions regarding the documentation, issues, or meetings discussed in this letter, please contact David Radosevich at (602) 352-2681.

Arizona Corporation Commission

DOCKETED

APR 03 2003

DOCKETED BY	
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Sincerely,

Hugh Starkey
Assistant Regional Manager
For Maintenance

DESERT SOUTHWEST REGION
PRELIMINARY FY2003 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM
PARKER-DAVIS CONSTRUCTION PROJECTS

ITEM	PROJECT	DESCRIPTION/COMMENTS	CONSTRUCTION		FIN TYPE	TOTAL EST. COST	TOTAL TO DATE COST	BUDGET (IN \$1000)											
			AWARD DATE	INSERVICE DATE				WESTERN'S SHARE											
								FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12		
1	Lone Butte Substation	So. of Phoenix 230-kV Upgrade Replace gassing XFMR(KX1A) to Upgrade 115-kV to 230-kV system	10/1/2002	5/1/2003	FED PD	\$3,418		\$570	\$100										
2	Phoenix O&M Ctr Stage 03 (P PHS 0050C	Remodel existing warehouse building to bring into code compliance (MULTI-COSTING)	10/15/1998	2/28/2003	FED PD	\$790	\$707	\$83											
3	Maricopa Substation MAR 0004C	So. of Phoenix 230-kV Upgrade Replace XFMR to Upgrade 115-kV to 230-kV system & building Upgrades	10/1/2003	5/1/2004	FED PD	\$6,155		\$392	\$1,548	\$3,209	\$276								
4	Parker-Gila 161-kV Line PADGLA 0022C	Relocate 1/2 mile of transmission line from the center of Town of Quartzsite to around Quartzsite	10/1/2004	9/30/2005	FED PD	\$4,738		\$813	\$50	\$3,750	\$25								
5	Phoenix Substation	So. of Phoenix 230-kV Upgrade Remove existing (KW1A) XFMR relocate to CAG. Furnish & install new transformer	10/20/2004	5/25/2005	FED PD	\$3,594		\$200	\$1,954	\$1,000	\$440								
6	Casa Grande Substation	So. of Phoenix 230-kV Upgrade Add a new 230-kV transformer bay and install KW1A XFMR	10/20/2004	5/25/2005	FED PD	\$1,891		\$150	\$0	\$972	\$579	\$100							
7	Maricopa-Saguaro T-Line (Maricopa-Casa Grande Portion)	So. of Phoenix 230-kV Upgrade Remove existing 115-kV line & build new 230-kV line	9/4/2002	5/1/2003	FED PD	\$3,230		\$870											
8	Parker-Blythe No. 1 161-kV	Parker Strip Reroute	10/1/2005	9/1/2008	FED PD	\$6,200		\$0	\$0	\$210	\$515	\$3,510	\$1,965						
9	Parker-Gila 161-kV Line	Parker Strip Reroute	10/1/2005	9/1/2008	FED PD	\$6,200		\$0	\$0	\$210	\$515	\$3,510	\$1,965						
10	Tucson Substation TUC 0009C	115-kV Bay Rehabilitation 162, 262, 462 and 662 & station Service	CONST 7/30/2007	9/30/2009	FED PD	\$1,980						\$300	\$1,000	\$680					
11	Wellton - Mohawk 34.5-kV T-lines WM1 to WM3	New lines and bays at WM1 and WM3 Aid irrigation project	CONST 9/15/2006	9/15/2007	FED PD	\$3,700								\$200	\$1,500	\$2,000			
12	Davis 69-kV Switchyard DAD 0028C	Replace obsolete equipment 69-kV Bay Rehabilitation AC Service Building, Monitor 2352, 2452, 2552 and 2556	10/15/2005	11/15/2007	FED PD	\$1,019						\$100	\$150	\$769					

DESERT SOUTHWEST REGION
PRELIMINARY FY2003 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM
PARKER-DAVIS CONSTRUCTION PROJECTS

ITEM	PROJECT	DESCRIPTION/COMMENTS	CONSTRUCTION		FIN. TYPE	TOTAL EST. COST	TOTAL TO DATE COST	BUDGET (IN \$1000)																				
			AWARD DATE	IN SERVICE DATE				WESTERN'S SHARE																				
13	Portable Water & Fire System	Mead Sustalation Potable Water & Fire Protection System (MULTI-COSTING)	7/11/2003	11/30/2003	FED PD	\$600		\$343	\$257																			
14	Buchanan Boulevard Project	Road and Culvert need to be upgraded and reconstructed (MULTI-COSTING)	11/2/2003	9/15/2005	FED PD	\$700							\$600	\$100														
15	Mead-Basic Line Reconnector MEDBAS 0009C	Reconnector 12.76 miles of Copper Conductor with ACSR	10/15/2004	12/15/2007	FED PD	\$2,576																						\$1,668
16	Gila Line Conversion 34.5kV to 69kV GLA-YMT GLA-GIV	Upgrade lines to 69 kV with static	10/15/2005	10/15/2007	FED PD	\$3,756																						
17	Gila Sub Conversion 34.5 to 69kV	Eliminate failing 34.5kV equipment	10/15/2007	1/15/2010	FED PD	\$1,576																						
18	Clark Tap	Clark Tap Metering	4/1/2005	5/1/2005	FED PD	\$250																						
19	Pinnacle Peak-Peacock 230kV line Upgrades	Clearance distance upgrades	10/31/2002	9/15/2003	FED PD	\$515																						
20	Parker-Gila 161kV Lines	Reroute around Black Point Mesa			FED PD	\$735																						
21	CASA GRANDE- EMPIRE TLINE UPGRADE TO 230KV	UPGRADE 17.2 MILES SOUTH OF CASA GRANDE TO EMPIRE TO COLIDGE FROM 115KV TO 230 KV	10/17/05	5/15/06		\$6,158																						
22	EMPIRE-ED5 TLINE UPGRADE TO 230KV	UPGRADE 9.2 MILES SOUTH OF CASA GRANDE TO EMPIRE TO COLIDGE FROM 115KV TO 230 KV	10/17/05	5/15/06		\$3,294																						
23	ED5-ED4 TLINE UPGRADE TO 230KV	UPGRADE 9.2 MILES SOUTH OF CASA GRANDE TO EMPIRE TO COLIDGE FROM 115KV TO 230 KV	10/17/06	5/15/07		\$3,392																						

DESERT SOUTHWEST REGION
PRELIMINARY FY2003 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM
PARKER-DAVIS CONSTRUCTION PROJECTS

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			AWARD DATE	IN SERVICE DATE				FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12							
24	ED4-ED2	UPGRADE 9.3 MILES SOUTH OF CASA GRANDE TO EMPIRE TO COLIDGE FROM 115KV TO 230 KV	10/17/06	5/15/07		\$3,429						\$1,000	\$2,429											
25	COL#1-ED2	UPGRADE 8.3 MILES SOUTH OF CASA GRANDE TO EMPIRE TO COLIDGE FROM 115KV TO 230 KV	10/17/06	5/15/07		\$3,060							\$1,000	\$2,060										
3.9 MILES ALREADY UPGRADED																								
26	EMPIRE TAP	UPGRADE 12.2 MILES SOUTH OF CASA GRANDE TO EMPIRE TO COLIDGE FROM 115KV TO 230 KV	10/1/07	5/1/08		\$5,253							\$565	\$1,000										
27	COL#2-ED2	UPGRADE 8.1 MILES SOUTH OF CASA GRANDE TO EMPIRE TO COLIDGE FROM 115KV TO 230 KV	10/17/06	5/15/07		\$2,986							\$1,000	\$1,986										
3.4 MILES ALREADY UPGRADED																								
28	CASA GRANDE	UPGRADE OF DSW SYSTEM SOUTH OF CASA GRANDE TO EMPIRE TO COLIDGE FROM 115KV TO 230 KV	9/17/06	5/30/07		\$6,631					\$520	\$1,000	\$5,111											
29	ED5	UPGRADE OF DSW SYSTEM SOUTH OF CASA GRANDE TO EMPIRE TO COLIDGE FROM 115KV TO 230 KV	9/17/07	5/30/08		\$5,253							\$565	\$1,000				\$3,688						
WESTERN PORTION/SEE TRUST FOR CONTRACTOR PORTION																								
30	ED4	UPGRADE OF DSW SYSTEM SOUTH OF CASA GRANDE TO EMPIRE TO COLIDGE FROM 115KV TO 230 KV	10/1/09	5/6/10		\$6,469								\$469				\$1,000	\$5,000					
31	ED2	UPGRADE OF DSW SYSTEM SOUTH OF CASA GRANDE TO EMPIRE TO COLIDGE FROM 115KV TO 230 KV	10/1/10	5/7/11		\$8,784												\$784	\$1,000	\$7,000				
32	COOLIDGE	UPGRADE OF DSW SYSTEM SOUTH OF CASA GRANDE TO EMPIRE TO COLIDGE FROM 115KV TO 230 KV	10/1/11	5/9/12		\$3,419													\$419	\$3,000				
33	UPGRADE OF TRANS. LINE SYSTEM SOUTH OF PARKER TO BOUSE	UPGRADE 22.6 MILES SOUTH OF PARKER TO BOUSE FROM 161KV TO 230 KV	10/1/05	5/1/07		\$2,250					\$600	\$1,350	\$300											

DESERT SOUTHWEST REGION
PRELIMINARY FY2003 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM
PARKER-DAVIS CONSTRUCTION PROJECTS

ITEM	PROJECT	DESCRIPTION/COMMENTS	CONSTRUCTION		FIN TYPE	TOTAL EST COST	TOTAL TO DATE COST	BUDGET (IN \$1000)							WESTERN'S SHARE					
			AWARD DATE	IN SERVICE DATE				FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12			
34	UPGRADE OF TRANS. LINE SYSTEM SOUTH OF PARKER 161KV TO 230KV	UPGRADE 78.9 MILES SOUTH OF BOUSE TO KOFA FROM 161KV TO 230 KV	10/1/07	5/1/08		\$4,700					\$600	\$3,800	\$300							
35	UPGRADE OF TRANS. LINE SYSTEM SOUTH OF PARKER 161KV TO 230KV	UPGRADE 7.3 MILES SOUTH OF KOFA TO DOME TAP FROM 161KV TO 230 KV	10/1/08	5/1/09		\$1,630						\$600	\$730	\$300						
36	UPGRADE OF TRANS. LINE SYSTEM SOUTH OF PARKER 161KV TO 230KV	UPGRADE 11 MILES SOUTH OF DOME TAP TO WELLTON MOHAWK FROM 161KV TO 230 KV	10/1/08	5/1/09		\$2,770						\$600	\$1,870	\$300						
37	UPGRADE OF TRANS. LINE SYSTEM SOUTH OF PARKER 161KV TO 230KV	UPGRADE 7.6 MILES FROM DOME TAP TO GILA FROM 161KV TO 230 KV	10/1/08	5/1/09		\$1,630						\$600	\$730	\$300						
38	UPGRADE OF TRANS. LINE SYSTEM SOUTH OF PARKER 161KV TO 230KV	UPGRADE 20 MILES FROM GILA TO KNOB FROM 161KV TO 230 KV	10/1/08	5/1/09		\$3,960							\$600	\$3,060	\$300					
39	UPGRADE OF TRANS. LINE SYSTEM SOUTH OF PARKER 161KV TO 230KV	UPGRADE 22 MILES FROM KNOB TO GOLD MINE TAP FROM 161KV TO 230 KV	10/1/08	5/1/09		\$4,230								\$600	\$3,330	\$300				
40	UPGRADE OF TRANS. LINE SYSTEM SOUTH OF PARKER 161KV TO 230KV	UPGRADE 42 MILES FROM GOLD MINE TAP TO BLYTHE/BUCK FROM 161KV TO 230 KV	10/1/09	5/1/10		\$4,230								\$600	\$3,330	\$300				
41	UPGRADE OF TRANS. LINE SYSTEM SOUTH OF PARKER 161KV TO 230KV	UPGRADE 63.9 MILES FROM BLYTHE TO PARKER FROM 161KV TO 230 KV	10/1/08	5/1/09		\$9,800					\$600	\$8,900	\$300							
42	UPGRADE OF TRANS. LINE SYSTEM SOUTH OF PARKER 161KV TO 230KV	UPGRADE 51.7 MILES FROM BLYTHE TO HEADGATE ROCK FROM 161KV TO 230 KV	10/1/07	5/1/08		\$8,180						\$600	\$7,280	\$300						
43	HEADGATE ROCK SUB UPGRADE TO 230KV	UPGRADE OF TRANS. SYSTEM SOUTH OF PARKER 161KV TO 230KV	10/1/09	5/1/10		\$2,562								\$1,560	\$1,022					

DESERT SOUTHWEST REGION
PRELIMINARY FY2003 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM
PARKER-DAVIS CONSTRUCTION PROJECTS

ITEM	PROJECT	DESCRIPTION/COMMENTS	CONSTRUCTION		FIN. TYPE	TOTAL EST. COST	TOTAL TO DATE COST	BUDGET (IN \$1000)									
			AWARD DATE	INSERVICE DATE				WESTERN'S SHARE									
								FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12
44	BLTYHE SUB UPGRADE TO 230KV	UPGRADE OF TRANS. SYSTEM SOUTH OF PARKER 161KV TO 230KV	10/1/06	5/1/07		\$5,027									\$1,135	\$3,892	
45	DOMETAP SUB UPGRADE TO 230KV	UPGRADE OF TRANS. SYSTEM SOUTH OF PARKER 161KV TO 230KV	10/1/09	5/1/10		\$490										\$490	????
46	WELLTON MOHAWK SUB UPGRADE TO 230KV	UPGRADE OF TRANS. SYSTEM SOUTH OF PARKER 161KV TO 230KV	10/1/09	5/1/10		\$700										\$700	????
47	KOFA SUB UPGRADE TO 230KV	UPGRADE OF TRANS. SYSTEM SOUTH OF PARKER 161KV TO 230KV	10/1/08	5/1/09		\$2,214									\$1,234	\$980	
48	BOUSE SUB UPGRADE TO 230KV	UPGRADE OF TRANS. SYSTEM SOUTH OF PARKER 161KV TO 230KV	10/1/07	5/1/08		\$2,510								\$950	\$1,560		
49	PARKER SUB UPGRADE TO 230KV	UPGRADE OF TRANS. SYSTEM SOUTH OF PARKER 161KV TO 230KV	10/1/10	5/1/11		\$620							\$620	???	???		
50	TOPOCK - MEAD T-LINE RECONDUCTOR	RECONDUCTORING OF T-LINE FOR INCREASED CAPACITY ISSUES FOR OPERATIONS				\$10,000				\$1,000	\$8,000	\$1,000					
			TOTAL FOR ALL PROJECTS			\$179,274		\$3,646	\$4,424	\$13,941	\$24,019	\$41,029	\$27,656	\$16,096	\$20,302	\$18,847	\$1,668

DESERT SOUTHWEST REGION
PRELIMINARY FY2005 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM
PARKER-DAVIS SUBSTATION RRAD PROJECTS

ITEM	PROJECT	DESCRIPTION/COMMENTS	CONSTRUCTION AWARD DATE	FIN. IN SERVICE DATE	FIN. TYPE	TOTAL EST. COST	TOTAL TO DATE COST	BUDGET (IN \$1000)									
								WESTERN'S SHARE									
								FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12
1	Substation Rehabilitation N/FGPD BRKSB	Sensor Wash 69-kV Bay Rehabilitation (152)	MAINT	9/15/2002	FED PD	\$180											
PROJECT TO BE COMPLETED BY SEPTEMBER 2003																	
2	Substation Rehabilitation N/FGPD BRKSB	Wellton - Mohawk Substation Replace Station Service transformer & Control Panel	MAINT	9/30/2005	FED PD	\$300			\$200	\$100							
3	Substation Rehabilitation N/FGPD BRKSB	Amargosa Substation 138-kV Bay Rehabilitation (1172)	MAINT	9/15/2003	FED PD	\$345		\$194									
4	Substation Rehabilitation N/FGPD BRKSB	Gila Substation 4.16kV breaker 106/Relay Replacement Falling need to be replaced	MAINT	9/15/2004		\$65		\$35	\$50								
5	Substation Rehabilitation N/FGPD BRKSB	Instrument transformers Systemwide, for failures and internal metering	MAINT	9/15/2003	FED PD	\$464		\$208	\$152								
6	Coolidge Facility N/FGPD BRKSB	Coolidge Build Covered Parking	MAINT	9/15/2003	FED PD	\$50			\$50								
7	Substation Rehabilitation N/FGPD SUBSB	Battery Replacement for Parker- Davis Facilities at Knob; Maricopa; Oracle; Walton-Mohawk; Gila Substation; ED2 and ED5	MAINT		FED PD	\$280			\$70	\$70	\$70						
8	Meter and Relay Program N/FGPD SUBSB	Relay Replacement @ ORA	MAINT	9/15/2005	FED PD	\$45			\$45								
9	Meter and Relay Program N/FGPD SUBSB	Relay Replacement @ ORA	MAINT	9/15/2005	FED PD	\$45			\$45								
10	Security Enhancements Required	Security Needed to Better Protect DSW Transmission System	MAINT		SPLIT PD	\$475			\$400	\$75							
11	Oil Retention Mitigation	Oil Containment Environmental and Safety Issues	MAINT	9/15/2005	FED PD	\$1,000				\$500	\$500						
	TOTAL EXPENSES FOR	PARKER-DAVIS RRAD SUBSTATION PROJECTS				\$3,269		\$437	\$1,012	\$745	\$570	\$70	\$0	\$0	\$0	\$0	\$0

DESERT SOUTHWEST REGION
PRELIMINARY FY2005 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM
PARKER-DAVIS TRANSMISSION LINE RRAD PROJECTS

ITEM	PROJECT	DESCRIPTION/COMMENTS	CONSTRUCTION AWARD DATE DATE	FIN TYPE	TOTAL EST. COST	TOTAL TO DATE COST	BUDGET (IN \$1000)							WESTERN'S SHARE					
							FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12			
1	Line Rehabilitation N/FGPD LINSB	Parker-Gila 161-kV Line Structure Replacement STR 74/6 (3T) to Gila Sub	MAINT 12/15/2000	FED PD	\$2,951														
2	Line Rehabilitation N/FGPD LINSB	Parker-Gila 161-kV Line Structure Replacement BSE to Str. 74/6 (3T)	MAINT 9/15/2002	FED PD	\$4,693														
3	Line Rehabilitation N/FGPD LINSB	Parker-Blythe No. 1 161-kV T-line Structure Replacement Structure 38/3 to Blythe Sub	MAINT 9/15/2003	FED PD	\$2,950		\$1,360												
4	Line Rehabilitation N/FGPD LINSB	Parker-Blythe No. 1 161-kV T-line Structure Replacement Parker Switchyard to structure 38/3 (3T)	MAINT 9/15/2004	FED PD	\$2,951		\$800	\$1,361											
5	Line Rehabilitation N/FGPD LINSB	Saguaro-Oracle 115kV Structure Replacement w/steel	MAINT 9/15/2005	FED PD	\$2,550			\$1,249	\$1,160										
6	Line Rehabilitation N/FGPD LINSB	Codidge-Oracle 115kV Structure Replacement w/wood	MAINT 9/15/2005	FED PD	\$400			\$200	\$200										
7	Line Rehabilitation N/FGPD LINSB	Parker-Blythe No. 2 161-kV Line Structure Replacement Replace Shell rot poles between Parker and Blythe	MAINT 9/15/2006	FED PD	\$2,950			\$1,200	\$1,360										
8	Line Rehabilitation N/FGPD LINSB	Parker-Blythe No. 2 161-kV Line Structure Replacement Replace Shell rot poles between Parker and Blythe	MAINT 9/15/2007	FED PD	\$2,950				\$1,590	\$1,360									
9	Line Rehabilitation N/FGPD LINSB	Parker-Blythe No. 2 161-kV Line Structure Replacement Replace Shell rot poles between Parker and Blythe	MAINT 9/15/2008	FED PD	\$2,850					\$1,490	\$1,360								
10	Line Rehabilitation N/FGPD LINSB	Parker-Blythe No. 2 161-kV Line Structure Replacement Replace Shell rot poles between Parker and Blythe	MAINT 9/15/2009	FED PD	\$2,250							\$1,290	\$960						
11	Wellton - Mohawk 34.5-kV T-L	Rehabilitation of the WMS-WM1 and WMS-WM3 34.5-kV Lines Aid Irrigation project	MAINT 9/15/2009	FED PD	\$800					\$100	\$300	\$400							
	TOTAL EXPENSES FOR	PARKER-DAVIS RRAD TRANSMISSION LINE PROJECTS			\$28,295		\$2,160	\$2,810	\$2,560	\$2,950	\$2,950	\$2,950	\$1,360	\$0	\$0	\$0			

DESERT SOUTHWEST REGION
PRELIMINARY FY2005 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM
PARKER-DAVIS COMMUNICATION RRAD PROJECTS

ITEM	PROJECT	DESCRIPTION/COMMENTS	CONSTRUCTION		FIN. TYPE	TOTAL EST. COST	TOTAL TO DATE COST	BUDGET (IN \$1000)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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1	Communications Division	RTU Replacement Davis, PAD, Blythe COMP DAD PAD	MAINT	9/15/2001	FED PD	\$51																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	</

DESERT SOUTHWEST REGION
PRELIMINARY FY2005 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM
PARKER-DAVIS COMMUNICATION RRAD PROJECTS

ITEM	PROJECT	DESCRIPTION/COMMENTS	CONSTRUCTION AWARD DATE DATE MAINT	FIN. TYPE	TOTAL EST. COST	TOTAL TO DATE COST	BUDGET (IN \$1000)							WESTERN'S SHARE		
							FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12
13	Communications Division	Replace DSW Telephone System (MULTI-COSTING)		Split PD	\$328							\$328				
14	Communications Division	Upgrade the Communications Alarm System (MULTI-COSTING)	MAINT	Split PD	\$181			\$181								
	TOTAL EXPENSES FOR	PARKER-DAVIS RRAD COMMUNICATIONS PROJECTS			\$7,628		\$740	\$522	\$602	\$559	\$342	\$572	\$358	\$445	\$0	\$0

* FOOTNOTE 1: SITES TO BE DONE IN FY03 - NPK MAR, COL NPK, KNB GLA, PHS JPK, NPK TPK, PPPK TPK
SITES TO BE DONE IN FY04 - NPK ORA, NPK TUC, WTK LIB, PRS MGS
SITES TO BE DONE IN FY05 - NPK ED5
SITES TO BE DONE IN FY06 - PPK TPK

** FOOTNOTE 2: TOWERS TO BE CONSIDERED IN THE TOWERS PROGRAM DURING FY04 - MTL, CAG
TOWERS TO BE CONSIDERED IN THE TOWERS PROGRAM DURING FY05 - MAR, ED5, ORA, NPK
TOWERS TO BE CONSIDERED IN THE TOWERS PROGRAM DURING FY06 - COL, SIG, ED2

DESSERT SOUTHWEST REGION

[illegible]

DESERT SOUTHWEST REGION
PRELIMINARY FY2005 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM
PARKER-DAVIS RETIREMENT PROJECT

ITEM	PROJECT	DESCRIPTION/COMMENTS	CONSTRUCTION		TOTAL EST COST	TOTAL TO DATE COST	BUDGET (IN \$1000)									
			AWARD DATE	IN SERVICE DATE			FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12
1	Basic Substation Demolition BAS 0019K 0021C	Demolish the Basic Substation Cont and Sub Yards 1, 2, & 3	5/1/2003	9/30/2007	\$2,637		\$563	\$609	\$725	\$270	\$150					
	TOTAL EXPENSES FOR	RETIREMENT PROJECTS			\$2,637		\$563	\$609	\$725	\$270	\$150	\$0	\$0	\$0	\$0	\$0

DESERT SOUTHWEST REGION
PRELIMINARY FY2005 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM
INTERTIE CONSTRUCTION AND RRAD PROJECTS

ITEM	PROJECT	DESCRIPTION/COMMENTS	CONSTRUCTION		FIN. TYPE	TOTAL EST. COST	TOTAL TO DATE COST	BUDGET (IN \$1000)									
			AWARD DATE	IN SERVICE DATE				WESTERN'S SHARE									
								FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12
1	Phoenix O&M Ctr Stage 03 (IN PHIS 10001C	Remodel existing warehouse building to bring into code compliance (MULTI-COSTING)	10/15/1998	9/15/2002	FED INT	\$119	\$107	\$12									
2	RUDD Substation	Connection between LUB and EST Western's portion Estrella Transmission Project			FED INT	\$3,500				\$500							
3	Potable Water & Fire System	Mead Substation Potable Water & Fire Protection System (MULTI-COSTING)		2/15/2006	FED INT	\$582		\$333	\$215	\$34							
4	Buchanan Boulevard Project	Road and Culvert need to be upgraded and reconstructed (MULTI-COSTING)		3/15/2005	FED INT	\$700						\$600	\$100				
SUB-TOTAL OF EXPENSES FOR CONSTRUCTION FOR						\$4,901		\$345	\$215	\$534	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Meter & Relay Program	Liberty DFR(INT)	MAINT	9/15/2000	FED INT	\$131				\$94	\$38						
6	Mead - Phoenix Communication	Upgrade the Communications System for the Mead-Phoenix Project	10/15/1999	9/15/2001	FED INT	\$250											
7	Communications Division	FY05-1RTU	MAINT	9/15/2005	FED INT	\$39				\$39							
8	Communications Division	Communication Power System Impr VHF Radio Replacement (INT)	MAINT	9/15/2003	FED INT	\$14		\$3									
9	Communications Division	Replace DSW Telephone System	MAINT		Split INT	\$328							\$328				
10	Communications Program	Upgrade the Communications Alarm System	MAINT		SPLIT INT	\$39			\$39								
11	Security Enhancements	Increased Security Issues	MAINT		SPLIT INT	\$275			\$200	\$75							
12	Mead Phone System	Upgrade PBX System	MAINT		SPLIT INT	\$149					\$131	\$18					
TOTAL EXPENSES FOR						\$6,126		\$348	\$454	\$742	\$169	\$618	\$428	\$0	\$0	\$0	\$0

DESERT SOUTHWEST REGION
PRELIMINARY FY2005 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM
CAWCD CONSTRUCTION AND RRAD PROJECTS

ITEM	PROJECT	DESCRIPTION/COMMENTS	CONSTRUCTION		TOTAL EST. COST	TOTAL TO DATE COST	BUDGE (IN \$1000)							WESTERN'S SHARE					
			AWARD DATE	INSERVICE DATE			FIN. TYPE	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12		
1	Substation Rehabilitation	Harcovar Substation 115-kV Bay Rehabilitation (1062) Breaker Replacement (1162)	MAINT	9/15/2002	TRUST CAP	\$239													
2	Communications Program	FY-05 1MW SYSTEM FY-09 INSPECT/REPAIR 1 TWR	MAINT	Various	TRUST CAP	\$473			\$180						\$293				
3	Communications Program	Replace DSW Telephone System	MAINT		SPLIT CAP	\$29									\$29				
4	Communications Program	Upgrade the Communications Alarm System	MAINT		SPLIT CAP	\$16			\$16										
5	Communications Program	RTU Replacement 5 - FY02 RTU	MAINT	Various	TRUST CAP	\$170													
6	Substation Rehabilitation	Breaker 382 - 230 kV Breaker Replacements - HCR Substation	MAINT		TRUST CAP	\$128		\$35											
7	Substation Rehabilitation	Relay Replacements	MAINT		TRUST CAP	\$86													
8	Oil Breaker Replacements Program (Various Sites and Contracts)	Replace Oil Circuit Breakers	CONST	Various	TRUST CAP	\$1,600						\$320	\$320	\$320	\$320	\$320	\$320	\$320	\$320
TOTAL EXPENSES FOR		CENTRAL ARIZONA WATER CONSERVATION DISTRICT			\$2,741		\$35	\$16	\$180	\$320	\$320	\$320	\$320	\$642	\$320	\$320	\$320	\$0	

DESERT SOUTHWEST REGION
PRELIMINARY FY2005 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM
BOULDER-CANYON CONSTRUCTION AND RRAD PROJECTS

ITEM	PROJECT	DESCRIPTION/COMMENTS	CONSTRUCTION		FIN. TYPE	TOTAL EST. COST	TOTAL TO DATE COST	BUDGET (IN \$1000)							WESTERN'S SHARE					
			AWARD DATE	IN SERVICE DATE				FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12			
1	Phoenix O&M Ctr Stage 03 BPHS B0001C	Remodel existing warehouse building to bring into code compliance (MULTI-COSTING)	10/15/1998	9/15/2002	FED BC	\$71	\$63	\$9												
2	Communications Division	Communication Power System Impl VHF Radion Replacement (BC)	MAINT	9/15/2003	FED BC	\$54		\$11												
3	Communications Program	Replace DSW Telephone System	MAINT		SPLIT BC	\$58			\$58											
4	Communications Program	Upgrade the Communications Alarm System	MAINT		SPLIT BC	\$32			\$32											
5	Potable Water & Fire System	Mead Substation Potable Water & Fire Protection System (MULTI-COSTING)		2/15/2005	FED BC	\$582		\$333	\$215	\$34										
6	Buchanan Boulevard Project	Road and Culvert need to be upgraded and reconstructed (MULTI-COSTING)		3/15/2006	FED BC	\$700						\$600	\$100							
7	Security Enhancements Required	Security Needed to Better Protect DSW Transmission System				\$275				\$200	\$75									
	TOTAL EXPENSES FOR	BOULDER CANYON PROJECTS				\$1,772		\$352	\$305	\$234	\$75	\$500	\$100	\$0	\$0	\$0	\$0			

DESERT SOUTHWEST REGION
PRELIMINARY FY2005 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM
CRSP CONSTRUCTION AND RRAD PROJECTS

ITEM	PROJECT	DESCRIPTION/COMMENTS	CONSTRUCTION AWARD DATE	FIN. INSTRUMENT DATE	FIN. TYPE	TOTAL EST. COST	TOTAL TO DATE COST	BUDGET (IN \$1000)						
								FY03	FY04	FY05	FY06	FY07	FY08	FY09
1	Phoenix OAM Cr Stage 03 (C) PHS C0001C	Remodel existing warehouse building to bring into code compliance (MULTI-COSTING)	10/15/1998	9/15/2002	FED CRSP	\$120	\$111	\$9						
2	Communications Division	Communication VHF Radio Replacement (CRSP)	MAINT	9/15/2003	FED CRSP	\$604		\$98						
3	Communications Division	Communication Power System based upon testing FY01 TOW, PSM FY03 ELD, KAY	MAINT	9/15/2009	FED CRSP	\$307		\$54	\$25	\$59	\$59	\$27	\$27	
4	Communications Program	1 - FY04, 2 - FY06, 1 - FY07 Replace DSW Telephone System	MAINT		SPLIT CRSP	\$81							\$81	
5	Communications Program	Upgrade the Communications Alarm System	MAINT		SPLIT CRSP	\$45			\$45					
6	Meier & Relay Program	DFR Replacement	MAINT	9/15/2009	FED CRSP	\$352				\$146	\$134	\$72		
7	Meier & Relay Program	Relay Replacements For transformer reliability and reactive equipment protection	MAINT	9/15/2009	FED CRSP	\$720				\$120	\$120	\$120	\$120	\$120
8	Communication Division	RTU Replacements FLG, GCP GCS, KAY, LHV, NWS FY02 - Labor	MAINT	Various	FED CRSP	\$77								
9	Communication Division	Inspect and repair COMM sites and towers 2 - FY04, 1 - FY06, 1 EA - FY07-09	MAINT	Various	FED CRSP	\$1,437		\$228	\$140		\$114	\$228	\$228	\$228
10	Communication Division	Microwave ELD-FLG (Backup path for Glen Canyon PP)	MAINT	9/15/2003		\$198		\$198						
13	PPK Replace Failing Equipment	Shunt Cap Bank MOD Controllers	MAINT			\$150								
PROJECT ON HOLD: WAITING FOR MANUFACTURERS RECOMMENDATIONS TO DETERMINE SCOPE OF PROJECT														
14	Security Enhancements Required	Security Needed to Better Protect DSW Transmission System				\$375			\$200	\$75				
	TOTAL EXPENSES FOR	COLORADO RIVER STORAGE PROJECTS				\$4,466		\$587	\$510	\$400	\$427	\$447	\$456	\$348
														\$120

DESERT SOUTHWEST REGION
PRELIMINARY FY2005 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM
TRUST CONSTRUCTION RAD PROJECTS
(ALL SYSTEMS)

ITEM	PROJECT	DESCRIPTION/COMMENTS	CONSTRUCTION		FIN TYPE	TOTAL EST. COST	TOTAL TO DATE COST	BUDGET (IN \$1000)									
			AWARD DATE	IN SERVICE DATE				FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12
1	Hoover Bypass	Department of Transportation building a new bridge near Hoover Dam		9/15/2000	TRUST	\$9,134	\$2,000	\$3,734	\$3,400								
TRANSMISSION LINE WORK TO BE DONE IN TWO PHASES																	
2	Headgate Rock Stage 08 HDR 0008C	Addition of new 161-kV Breaker, replacement of 161/69-kV XFMR, replacement of 69-kV oil circuit breakers	8/15/2000	4/15/2001	FED TRUST	\$5,881											
PROJECT COMPLETE																	
3	Empire Tap Rebuild	Rebuild tap	10/15/2001	9/1/2006	TRUST PD	\$1,120		\$112	\$224	\$560	\$224						
4	Signal Substation Modification	Replace MODI with MOI, rework the bus and replace the control building	10/15/2001	9/15/2006	TRUST PD	\$1,425		\$60	\$273	\$887	\$205						
5	Blythe Project	Interconnect to WAPA	7/1/2001	2/14/2002	TRUST PD	\$12,000		\$100									
PROJECT COMPLETE																	
6	Wellton-Mohawk Generation Facility	Interconnect to WAPA at WML	1/1/2004	5/1/2005	TRUST PD	\$12,400		\$1,400	\$10,000	\$1,000							
7	Sundance Project	Interconnect to WAPA	6/1/2001	2/14/2002	TRUST PD	\$7,000											
PROJECT COMPLETE																	
8	Big Sandy project	Interconnect to WAPA	7/1/2001	5/14/2002	TRUST PD	\$24,947		\$905									
PROJECT IN "HOLD" STATUS																	
9	North Havasu Substation	Construction of a 230/69/20.8 KV Substation in Lake Havasu City			TRUST PD	\$5,800		\$2,600	\$3,100	\$100							
10	Mead Substation 230 KV Fault Duty Mitigation	This project is due to Ivanpah and Centennial Projects			TRUST IN	\$16,900		\$5,000	\$3,600	\$5,900	\$5,800	\$300					
11	Valley Electric Authority 230 KV Bay Addition at Mead Substation	This project is a stage of the bigger Ivanpah Project			TRUST IN	\$3,900		\$400	\$1,800	\$1,700							
12	Nevada Power Company 230 KV Bay Addition at Mead Substation	Install of a new 230 KV bay at Mead Substation.			TRUST IN	\$4,900		\$1,200	\$3,700								
13	Nevad Power Company 500 KV Interconnection	This project is a stage of the bigger Centennial Project			TRUST IN	\$4,400		\$300	\$3,100	\$1,000							
14	ED5 Sub Upgrade to 230KV	Upgrade of DSW System South of Casa Grande To Empire to Coolidge From 115KV to 230KV	10/1/08	5/5/09	TRUST	\$4,271						\$2,347	\$1,924				
TRUST PORTION/SEE PD-CONSTRUCTION SHEET FOR WESTERN'S PORTION																	

DESERT SOUTHWEST REGION
PRELIMINARY FY2005 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM
TRUST CONSTRUCTION RRAD PROJECTS
(ALL SYSTEMS)

ITEM	PROJECT	DESCRIPTION/COMMENTS	CONSTRUCTION		TOTAL EST. COST	TOTAL TO DATE COST	BUDGET (IN \$1000)									
			AWARD DATE	INSERVICE DATE			FIN. TYPE	WESTERN'S SHARE								
							FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12
15	Signal Sub Upgrade to 230KV	Upgrade of DSW System South of Casa Grande To Empire to Coolidge From 115KV to 230KV	10/1/11	5/1/12	\$3,880									\$1,560	\$2,320	
16	Black Mesa Substation Breaker 1682	Replace Oil Circuit Breaker	??	??	TRUST CAP	\$200	????	????	????			\$200				
17	Gallivan Substation	APS Interconnection	??	??	TRUST CAP	??	????	????	????							
18	Flagstaff Substation	APS Interconnection - Bay Additions	??	??	TRUST CAP	??		????	????	????						
TOTAL EXPENSES FOR		TRUST & REIMBURSABLE PROJECTS			\$118,158		\$15,611	\$29,197	\$11,147	\$6,229	\$2,647	\$2,124	\$0	\$1,560	\$2,320	\$0

DESERT SOUTHWEST REGION
PRELIMINARY FY2005 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM
SUMMARY SHEET FOR ALL MULTI-COSTED PROJECTS - ALL SYSTEMS

ITEM	PROJECT	DESCRIPTION/COMMENTS	CONSTRUCTION		FIN TYPE	TOTAL EST. COST	TOTAL TO DATE COST	BUDGET (IN \$1000)									
			AWARD DATE	INSERVICE DATE				FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12
1	Phoenix O&M Ctr Stage 03 (P)	Remodel existing warehouse building to bring into code compliance (MULTI-COSTING)	10/15/1998	2/28/2003	FED	\$1,100	\$988										
					PD	\$790	\$707	\$63									
					IN	\$119	\$107	\$12									
					CR	\$120	\$111	\$9									
					BC	\$71	\$63	\$8									
2	Communications Division	Replace DSW Telephone System (MULTI-COSTING)	MAINT		FED	\$824							\$328				
					PD	\$328							\$328				
					IN	\$328							\$81				
					CR	\$81							\$58				
					BC	\$58							\$29				
					CA	\$29											
3	Security Enhancements Required	Security Needed to Better Protect DSW Transmission System (MULTI-COSTING)	MAINT		FED	\$1,400							\$75				
					PD	\$475							\$75				
					IN	\$275							\$75				
					CR	\$375							\$75				
					BC	\$275							\$75				
4	Communications Division	Upgrade the Communications Alarm System (MULTI-COSTING)	MAINT		FED	\$313											
					PD	181											
					IN	39		\$39									
					CR	45											
					BC	32											
					CA	16											
5	Potable Water & Fire System	Mead Substation Potable Water & Fire Protection System (MULTI-COSTING)	7/11/2003	11/30/2003	FED	\$1,755											
					PD	\$138											
					IN	\$1,293											
					BC	\$323											
					PD	\$79											
					IN	\$737											
					BC	\$184											
6	Buchanan Boulevard Project	Road and Culvert need to be upgraded and reconstructed (MULTI-COSTING)	11/2/2003	9/15/2005	FED	\$2,100											
					PD	\$166											
					IN	\$1,548											
					BC	\$386											
					FED	\$149											
					PD	\$12											
					IN	\$110											
					BC	\$27											
7	Mead Phone System	Upgrade PBX System (MULTI-COSTING)	MAINT		FED	\$149											
					PD	\$12											
					IN	\$110											
					BC	\$27											
TOTAL EXPENSES FOR						\$2,090											
		PARKER-DAVIS				\$3,712											
		INTERTIE				\$1,172											
		BOULDER CANYON				\$621											
		CRSP				\$45											
		CAWCD															
TOTAL FOR ALL PROJECTS						\$7,640		\$1,142	\$2,065	\$63	\$131	\$1,818	\$1,395	\$29	\$0	\$0	\$0

**MINUTES FROM CUSTOMER MEETING –
PRESENTATION OF DRAFT PRELIMINARY TEN-YEAR PLAN DOCUMENT**

MEETING HELD ON: JANUARY 30, 2003

SITE VISIT TO SOUTH, SOUTH OF PHOENIX HELD ON: FEBRUARY 27, 2003

SITE VISIT TO SOUTH OF PARKER HELD ON: MARCH 5, 2003

PURPOSE:

The preliminary Fiscal Year (FY) 2005 Ten-Year Plan was sent out to customers in December, 2002. This meeting was to review the plan, discuss the potential rate impacts, and compare the FY 2005 proposed plan to last year's plan.

DISCUSSION TOPICS AND ACTION ITEMS:

1. TEN YEAR PLAN RATES IMPACT:

The plan as proposed was input into each project's "investment database" that's tied to the Power Repayment Study. Based on **very preliminary** estimates, and using existing rate design methodologies and practices the anticipated rate impact for each project:

- Parker Davis: For FY05, estimated rate impact \$.07 per kW/month, or less than \$1.00 per kW/yr.
- Intertie: Estimated increase of approx. \$.15 per kW/yr for FY05.
- Boulder Canyon: different because BCP is a "pay as you go" plan. The construction/replacement costs are not capitalized as in other projects, but go directly into revenue requirement in the year costs are incurred. Any increase in the revenue requirement directly impacts the amount the customer pays in a given year.

Notes: For PDP and Intertie: Rate impact not felt until asset placed in service.

2. MEAD SHARED ALLOCATION FOR CONSTRUCTION PROJECTS:

The allocation of construction costs for Common Facilities (i.e., Potable Water & Fire System and Buchanan Boulevard) at Mead Substation to the Intertie, Boulder Canyon and Parker-Davis Projects are 73.7%, 18.4%, and 7.9%, respectively. This cost allocation was determined by the development and application of a "line termination-based" methodology. The designated line terminations associated with non-Western entities were assigned to the Intertie Project for cost allocation purposes. The costs associated with this assignment will be offset by revenues derived from Facilities Use Charge assessments. Currently, Western collects Facilities Use Charges for the Interconnection of Common Facilities at Mead Substation from most non-Western entities.

- Investigate the feasibility for obtaining funding through the new Homeland Security Office to off-set budgetary requirements for DSW.
- Attach initial handout given to customers at meeting explaining the breakout of costs at Mead facility.

A new chart was added to illustrate the difference between the Ten-Year Plan estimates and the allotted budget dollars in the last, few Fiscal Years.

NOTE: This answers an outstanding action item from the FY2003 Ten-Year Planning Process.

3. BREAKOUT OF MULTI-COSTED PROJECTS THROUGHOUT TEN-YEAR PLAN:

DSW has added a section in the both the Ten-Year Plan and PowerPoint Presentation, grouping those projects that cross multiple power systems. These groupings are for informational purposes. The estimated costs will still be included under the appropriate power system spreadsheet.

NOTE: This answers an outstanding action item from the FY2003 Ten-Year Planning Process.

REVIEW OF PROJECTS:

The projects were reviewed project by project in a Power Point presentation. The presentation is available upon request. Comments that were discussed were as follows:

PROJECT	COMMENTS
<u>POTABLE WATER & FIRE SYSTEM:</u> <ul style="list-style-type: none">• Question was raised on the justification for the Mead Facility Multi-Costed Project Methodology.• Issue was raised as to when the Intertie and Parker-Davis customers were presented plan.	<ul style="list-style-type: none">✓ DSW gave each customer a handout outlining the philosophy and methodology for future projects at Mead Facility. Ann Finley answered questions raised by Bob Lynch.✓ DSW is coordinated with all customers on the above-mentioned issue and taking advantage of existing customer meetings, i.e., JPA Meetings, ENOC Meetings, etc., to make sure customers are informed of all changes to existing processes.
<u>PARKER-GILA 161 KV LINE:</u> <ul style="list-style-type: none">• Can DSW provide customers with a list of Right-of-Way (ROW) issues by line and/or facility?• Has DSW investigated receiving funding from the city government?• Customers requested a copy of the easement documentation and wording.	<ul style="list-style-type: none">✓ DSW will need time to develop list, including priorities, and will provide to customers as soon as completed.✓ DSW met with Quartzsite government officials on February 6, 2003. Discussed options for the re-route project and project finances. Even though the city government does not have funds allocated for this project, they discussed partnering with our customers to try and obtain non-reimbursable funding.✓ Attached is the requested documentation.

<ul style="list-style-type: none"> • What steps are being taken to ensure this ROW issue does not occur in the future? 	<ul style="list-style-type: none"> ✓ The ROW process is in the process of being documented and a database is being implemented to maintain better documentation. Investigating the use of the MAXIMO system in the future, coordinating with Maintenance on ROW issues.
<p><u>CASA GRANDE-EMPIRE T-LINE UPGRADE TO 230-kV:</u></p> <ul style="list-style-type: none"> • Request was made to have separate meetings for both the South of Casa Grande, South of Phoenix and South of Parker Projects, to have the time needed to discuss issues at length. • Could DSW send out maps of the transmission lines within the region? 	<ul style="list-style-type: none"> ✓ Site visits were set-up for last week of February and first week of March with the Project Managers. Attached are the questions from the customers concerning the South of Casa Grande, South of Phoenix Project. There were no questions from the South of Parker Project. ✓ The attached CD contains both the Transmission Line Map and Operating Diagrams. They are in PDF format and can be downloaded from the data CD.
<p><u>ED5 SUBSTATION UPGRADE TO 230-kV:</u></p> <ul style="list-style-type: none"> • How is DSW handling the customer portion - is the customer aware of the issue? 	<ul style="list-style-type: none"> ✓ The customer portion of the upgrade will be discussed, while in contract review with Power Marketing, to determine financial responsibility. Issue is on-going for both DSW and customer.
<p><u>UPGRADE OF TRANSMISSION LINE SYSTEM SOUTH OF PARKER FROM 161 KV TO 230-kV:</u></p> <ul style="list-style-type: none"> • What kind of generator or interconnection does the customer have in mind? • CAWCD would like to know if this would elevate the static var issues at Parker Substation? 	<ul style="list-style-type: none"> ✓ Question was answered by the Wellton-Mohawk customers. ✓ Jim Charters to take that on as an action item for later discussion at a JPA Meeting.
<p><u>PARKER SUBSTATION UPGRADE TO 230-kV:</u></p> <ul style="list-style-type: none"> • Questions were raised on the metering issues, in conjunction with Power Marketing Contract requirements. 	<ul style="list-style-type: none"> ✓ Andrew McBride will review contracts for Signal to determine the outcome of the metering questions.
<p><u>OIL RETENTION MITIGATION:</u></p> <ul style="list-style-type: none"> • Which facilities and exact costs will DSW be doing in those Fiscal Years? Is there an FDS sheet for this project? 	<ul style="list-style-type: none"> ✓ Project in a "hold" status while a determination being made by DSW as to the true scope and necessity of project.
<p><u>RUDD SUBSTATION:</u></p> <ul style="list-style-type: none"> • FDS sheet very preliminary... not very beneficial. Could DSW provide better FDS sheet? 	<ul style="list-style-type: none"> ✓ This project is still being defined for better scope. Transmission Planning and Construction Engineering to make determination on scope of project.

<ul style="list-style-type: none"> • What are the impacts for SRP ... what are the gains and losses? • May cause breaker issues at Liberty Substation... who has the financial responsibility? 	
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4. CUSTOMER QUESTIONS FROM SOUTH OF CASA GRANDE, SOUTH OF PHOENIX SITE VISIT:

The following questions were raised by LeeAnn Torkelson, from K.R. Saline & Associates, PLC. The answers are provided by the South of Casa Grande, South of Phoenix Project Manager – Chuck McEndree.

Questions asked during the Casa Grande Tour:

Will Western remove the existing 115-kV system and replace with 230-kV, or build 230-kV adjacent to, or on top of the 115-kV system?

The existing 115-kV transmission lines will be removed and 230-kV lines will be constructed on the same ROW. Some existing 115-kV substations and switchyards will be replaced with 230-kV facilities and at other locations the 230-kV facilities will be built next to the existing 115-kV facilities. The 230-kV construction depends on the existing facilities at the location.

What will happen to existing 115/12-kV transformers? Scrap/resell/move elsewhere in Western's system/other option?

The need for the 115/12-kV transformers is reduced with the conversion of part of the system to 230-kV. The newest/best 115/12-kV transformers would be evaluated for replacements and the rest would be sold/scrapped.

Is Western proposing to upgrade both Coolidge-ED2 115-kV lines? Is there an opportunity to negotiate upgrading only one of the 115-kV lines?

Both lines were proposed to be up-rated to 230-kV in the preliminary estimates. Consideration will be given to only up-rating one.

The Preliminary Ten-Year Plan funds the upgrades starting at Casa Grande and ending at Coolidge. What is the reasoning for starting at Casa Grande?

Could the project be started at Coolidge?

The conversion to 230-kV has started on the Casa Grande side since the Phoenix Substation could be converted to 230-kV and the 230/115-kV transformer replaced with a 230/12-kV transformer.

The Maricopa Substation would be rebuilt to 230-kV and the line from Maricopa to Casa Grande that has just been rebuilt to 230-kV but energized at 115-kV would be energized at 230-kV. The 230/115-kV transformer removed from Phoenix would be installed at Casa Grande.

Post-Tour questions:

The facility data sheet for Casa Grande shows a total cost of \$1.891million, while the spreadsheet of all projects shows the Casa Grande Sub upgrade (item #39) to be \$6.631 million. Which value is more accurate?

The \$1.891m is for installation of the Phoenix 230/115-kV transformer at Casa Grande in 2005. The \$6.631m would remove the 230/115-kV transformer and construct a three element 230-kV ring bus with two 230/12-kV transformers in 2007.

The dollar amounts indicated on the spreadsheet are in present day dollars?

No, the funding has been escalated to the expenditure year.

The ED2 substation upgrade is estimated to be \$8.784 million, which seems high compared to the other substation upgrades. Could you clarify the upgrades proposed for this substation?

This funding was escalated to 2011 and is for a six element ring bus. A three breaker ring bus and the installation of the 230/115-kV transformer from Phoenix Substation would be approximately \$5.145m in 2011. All estimates are budget grade for out years and will be refined to construction grade three years prior to in service.

Could we get FDS (Facility Data Sheets) reports on all of the project elements? (See items #32 through #43 from the Prelim FY03 Maintenance Construction Rehab Program spreadsheet).

Yes.